

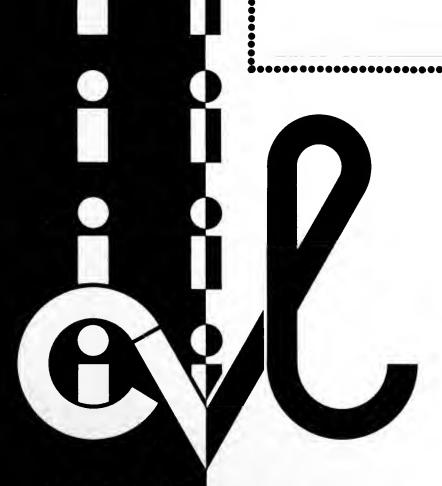
JOINT HIGHWAY RESEARCH PROJECT

JHRP-86-2

TRAFFIC SPEED REPORT NO. 119

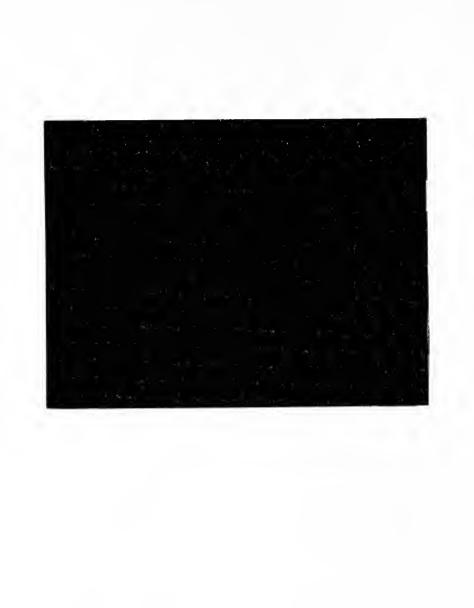
D. L. Cochran

L. Gray





PURDUE UNIVERSITY



JOINT HIGHWAY RESEARCH PROJECT JHRP-86-2

TRAFFIC SPEED REPORT NO. 119

D. L. Cochran

L. Gray



TRAFFIC SPEED REPORT NO. 119

Harold L. Michael, Director To:

Joint Highway Research Project

March 27, 1986

From: David L. Cochran, Engr. Tech.

Joint Highway Research Project

File: 8 - 3 - 3

Project: C - 36 - 10C

The attached Progress Report No. 119 is the report of the June-September 1985 study of free flow automobile and truck speeds on tangent, level and dry sections of rural interstate, urban interstate, 4-lane and 2-lane highways in Indiana. This report was prepared by David L. Cochran. Data were collected by David Cochran with the assistance of Leroy Gray.

The results of this report show that all types of vehicles, on all types of Indiana highways, had an average free flow speed of 57.2 mph in 1985. This indicates a reduction of 0.5 mph from 1984. If the two urban interstates are excluded, the average speed becomes 56.9 mph in 1985. This indicates a reduction of 0.7 mph from 1984.

This report includes a chart, Figure 2 on page 8, that graphically summarizes the results of summer free flow speed monitoring since 1975. This report also includes a table, Table 8 on page 9, that summarizes the change in speeds in 1985 from 1984.

Copies of this report will be sent to the Indiana DOH. Copies of this report are requested for release to the Indiana State Police and other highway safety agencies, which is normal procedure for these reports.

Respectfully submitted

David L. Cochran Traffic Research

cc: A.G. Altschaeffl

W.F. Chen

D.E. Hancher J.M. Bell M.E. Cantrall

M.K. Hunter J.F. McLaughlin K.M. Mellinger

W.L. Dolch H.L. Michael R.L. Eskew P.L. Owens

B.K. Partridge K.C. Sinha

C.A. Venable E.W. Walters

bу

David L. Cochran, Engr. Tech. Joint Highway Research Project

Leroy Gray Traffic Engineering Technician

Joint Highway Research Project
Project No.: C - 36 - 10C
File No.: 8 - 3 - 3

Prepared as Part of an Investigation Conducted by

Joint Highway Research Project Engineering Experiment Station, Purdue University,

in Cooperation with the

Indiana Department of Highways

Purdue University
West Lafayette, Indiana 47907

This report is an analysis of spot speed observations made during the 1985 summer months of June, July, August and September. All observations were made of free-flowing vehicles on level, tangent sections of rural and urban highways under favorable conditions. All observations were made during daylight hours.

This is the fifth report with exclusively summer observations since 1975. From 1976 until 1980 (Traffic Speed Reports #95 through #114), 14 primary and secondary stations, as well as another 14 randomly selected stations, were monitored every quarter in conjunction with the 55 mph speed compliance certification program performed for the Federal Highway Administration. Since 1981 the State and Federal studies have been conducted separately.

Fourteen speed monitoring stations were used for the 1985 traffic Speed Report calculations. These stations are divided into four categories which include: four rural interstate locations, four rural four-lane locations, four rural two-lane locations and two urban interstate locations. These 14 stations are the same as the primary and secondary control stations monitored since 1975 in Indiana. Prior to 1975, only the 12 rural stations were monitored. The locations of the 12 rural stations are essentially the same since 1970 except for stations 4L-32 (formerly number 6 on US 52) and 2L-54 (formerly number 11 on US 31), which changed in 1975.

The speed limit at all the stations is 55 mph. The site locations are given in Table 1 and shown in Figure 1.

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and light trucks (less than 5000 lbs. gross weight) or heavy trucks (equal to or more than 5000 lbs. gross weight). Computer analysis was performed for each vehicle classification and for combined passenger cars and combined trucks.

1. Sample Size

At each station, a minimum of 200 vehicles in each direction were recorded using the free flow technique at that location. At least 25 of these vehicles, in each direction, were required to be heavy trucks.

2. Equipment and Field Procedure

The observations for this study were obtained by use of a Kustom Signals Model HR-8 K-Band radar gun. The burst method, using the on/off switch, was used to record speeds. This method was used to avoid early detection by radar detectors. Speeds were taken from within a van or sedan parked on the right shoulder of the road or parked in an access driveway to the road. The

Table 1: Monitoring Locations

Rural Interstate	Highways	
RI-06	I-65	7.5 Miles North of SR 160, Mile Marker 22.5
RI-12	1-74	0.1 mile West of Mile Marker 109
RI-21	1-69	1.6 Miles South of SR 18, Mile Marker 62.6
RI-34	I - 65	2.0 Miles South of SR 39, Mile Marker 135
4-Lane Highways		
4L-17	US 52	150 Feet East of CR 475W (Tippecanoe Co.)
4L-20	US 41	1.1 Miles North of SR 2
4L-21	US 31	0.8 Mile North of SR 38 (Moved)
4L-32	US 30	3.4 Miles West of US 421
2-Lane Highways		
2L-18	US 35	2.5 Miles East of I-69
2L-54	US 231	1.1 Miles South of SR 234
2L-79	SR 25	0.7 Mile South of Americus
2L-91	SR 43	2.0 Miles South of Chalmers
Urban Interstate	Highways	
UI-01	I-80	First Bridge East of Burr St. Interchange
UI-06	1-65	Just East of White River

observers were equipped with a CB radio to monitor possible radio notification of speed measurement and of police vehicles in the area. When radar speed recording was detected, and subsequently broadcast on the CB radio, speeds were not taken for at least 5 minutes. This problem occurred primarily on interstate highways.

The accuracy of the radar gun was checked at the beginning of each data recording session, every time the sampling technique was changed, and at other times when deemed necessary.

3. Results of Analysis

The free flow data collected were analyzed and are summarized for each station in Tables Al through Al4 in the Appendix. Tables Al5 through Al8 summarize the free flow data by highway classification. Table Al9 is the summary for all 14 highways. Table A20 is the summary for all 12 rural highway classifications.

The results of the free flow data categorized by highway classification and vehicle type are shown in Tables 2 through 5.

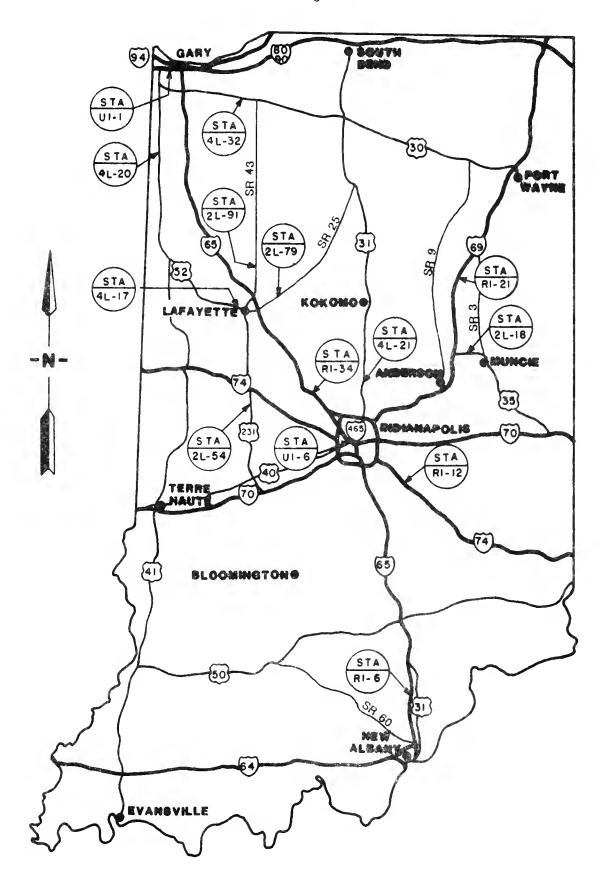


FIGURE 1. LOCATION OF SPEED-STUDY STATIONS

Table 2: Average Speed MPH

	Inters		Other		A11	
	Urban	Rural	4-Lane	2-Lane	Sites	Rural
Passenger Cars:						
Indiana	59.5	59.2	56.9	55.8	57.3	57.0
Non-Indiana	59.3	60.1	58.3	55.5	59.0	58.8
All Passenger Cars	59.4	59.5	57.2	55.7	57.7	57.4
85 Percentile (all)	63.7	63.6	61.3	60.5	62.3	62.0
15 Percentile (all)	54.4	54.5	52.3	50.0	52.3	52.1
Trucks:						
Less than 5000 lbs.	58.4	58.0	56.3	55.4	56.7	56.4
5000 lbs. or more	57.3	57.6	55.4	53.9	56.2	55.9
All Trucks	57.7	57.7	55.8	54.8	56.4	56.1
85 Percentile (all)	60.9	61.7	60.6	59.4	60.7	60.6
15 Percentile (all)	53.1	53.1	50.3	49.2	51.1	50.7
All Vehicles:						
Average	58.7	58.9	56.7	55.4	57.2	56.9
85 Percentile	62.8	62.9	61.0	60.1	61.8	61.6
15 Percentile	53.9	54.0	51.4	49.6	51.9	51.5

Table 3: Percent of Vehicles Exceeding 55 MPH

	Interstate		Other Rural		A11	
	Urban	Rural	4-Lane	2-Lane	Sites	Rural
Passenger Cars:						
Indiana	81.0	80.8	63.6	50.1	64.8	62.5
Non-Indiana	83.9	84.7	76.4	52.8	79.1	77.5
All Passenger Cars	82.1	82.2	66.3	50.3	68.2	65.6
Trucks:						
Less than 5000 lbs.	74.3	70.5	54.4	48.7	58.7	56.3
5000 lbs or more	70.8	66.3	53.5	36.8	57.9	54.4
All Trucks	72.0	67.9	53.9	43.7	58.3	55.3
All Vehicles:	78.0	76.9	61.5	48.1	64.5	61.9

Table 4: Percent of Vehicles Exceeding 60 MPH

	Inters		Other		A11	
	Urban	Rural	4-Lane	2-Lane	Sites	Rural
Passenger Cars:						
Indiana	38.9	36.6	22.1	17.1	25.7	23.8
Non-Indiana	34.4	44.1	28.7	15.7	34.9	35.1
All Passenger Cars	37.2	39.3	23.5	17.0	27.9	26.2
Trucks:						
Less than 5000 lbs.	27.9	26.8	18.0	13.1	19.7	18.4
5000 lbs. or more	17.1	21.9	18.5	9.6	17.5	17.6
All Trucks	20.8	23.7	18.2	11.6	18.5	18.0
All Vehicles:	30.5	33.5	21.4	15.2	24.4	23.2

Table 5: Percent of Vehicles Exceeding 65 MPH

	Inter	rstate	Other	Rural	Al:	l
	Urban	Rural	4-Lane	2-Lane	Sites	Rural
Passenger Cars:	Olban	Nulai	4 Dane	z Hanc	51110	narar
Indiana	11.2	9.2	3.1	4.3	5.9	5.2
Non-Indiana	7.2	11.5	6.1	3.9	8.3	8.7
All Passenger Cars	9.6	10.0	3.7	4.2	6.5	5.9
Trucks:						
Less than 5000 lbs. 5000 lbs. or more All Trucks	5.5	6.0	4.8	2.7	4.4	4.3
	2.8	3.0	2.7	1.5	2.6	2.5
	3.7	4.1	3.7	2.2	3.4	3.4
All Vehicles:	7.2	7.8	3.7	3.5	5.3	5.0

The results of this study and similar studies conducted since 1975 are tabulated in Table 6. The speed values for 1975 to 1978 were calculated from the tables given in the respective appendicies of the reports (nos. 94, 98, 102, 106) for the 14 locations used in this study. The 15th and 85th percentile speed values for 1979 through 1985 were calculated by interpolation over 1 mph speed intervals from the raw data.

Table 6: Summary of Spot Speed Observations on Indiana Highways (Free-Moving Vehicles on Level, Tangent Sections)

	F	asseng	er Car	's		Tru	icks		-Comb	ined-
	Ind. Mean	Non- Ind. Mean	All Mean	A11 85%	Lgt. Mean	Hvy. Mean	All Mean	A11 85%	All Mean	A11 85%
2-Lan	e:									
1975 1976 1977 1978 1979	57.2 56.0 56.7 56.8 56.4	57.4 57.3 56.2 57.1 56.0	57.8 56.1 56.7 56.8 56.4	62.9 61.5 62.3 61.9 60.5	57.5 54.9 56.3 55.4 55.1	56.2 55.0 54.7 55.9	55.7 54.9 54.6 55.2 55.6	61.3 60.6 60.4 61.1 61.1	56.9 54.9 55.4 55.7	62.2 60.9 60.9 61.3 61.4
1980 1981 1982 1983 1984 1985	55.2 55.7 55.8 56.3 56.5 55.8	58.4 56.2 57.2 55.8 56.9 55.5	55.3 55.8 56.0 56.2 56.6 55.7	59.7 60.2 60.2 60.7 60.9	55.1 55.0 54.8 55.0 55.2 55.4	54.9 54.7 54.9 54.6 55.1 53.9	54.9 54.8 54.9 54.8 55.2 54.8	60.2 59.9 59.7 59.3 59.8 55.4	55.0 54.8 54.9 55.7 56.0 55.4	60.2 59.9 60.0 60.2 60.4 60.1
4-Lane	e:									
1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985	57.6 57.0 57.7 57.5 56.3 55.9 56.5 56.6 57.4 57.7 56.9	58.1 57.2 58.7 57.8 57.0 57.4 58.0 57.6 58.0 58.6 58.3	57.7 57.1 57.9 57.5 56.5 56.2 56.8 57.5 57.9	62.8 62.3 62.9 62.5 61.1 60.5 61.1 61.7 61.9	56.4 55.5 56.0 56.0 55.7 55.3 56.3 55.1 56.4 57.0 56.3	55.9 56.6 57.3 57.7 56.4 56.4 56.1 55.7 56.4 56.8 55.4	56.1 56.6 56.2 56.9 56.5 55.9 56.2 55.4 56.4 56.9 55.8	62.3 62.2 61.9 61.5 62.3 61.4 61.5 61.1 61.7 61.4	56.1 54.7 56.9 56.9 56.1 55.9 56.2 55.4 57.1 57.5	62.3 61.8 62.1 62.1 61.6 60.5 61.0 61.8 61.4 61.7
1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985	59.7 59.0 60.4 59.2 58.4 57.9 58.9 59.2 59.3	60.2 60.3 60.5 60.3 58.9 59.7 59.6 59.5 60.0 60.5	59.9 59.4 60.4 59.7 58.6 58.8 58.6 58.9 59.5 59.5	64.2 63.0 65.4 63.7 62.4 62.3 62.3 62.2 63.1 63.6	58.2 58.5 58.4 58.9 57.6 57.6 57.4 58.0 58.5 58.4	59.3 58.9 59.7 59.8 59.3 57.2 58.8 58.2 58.7 58.1 57.6	57.5 58.0 57.3 59.8 59.5 59.8 58.4 58.1 58.6 58.2 57.7	62.6 62.6 63.9 64.8 64.5 62.6 62.9 62.7 62.8 61.8 61.7	58.9 58.3 59.3 59.5 58.7 58.3 58.4 58.1 59.2 59.1 58.9	62.1 62.7 64.2 64.6 64.0 62.5 62.4 62.1 62.8 62.9
Urban	Intersta	te:								
1981 1982 1983 1984 1985	57.7 57.7 58.7 58.8 59.5	58.5 57.8 58.2 58.4 59.3	57.9 57.7 58.6 58.7 59.4	62.2 61.9 61.9 62.8 63.7	57.2 56.8 57.8 58.1 58.4	56.5 55.7 57.2 56.4 57.3	56.8 56.1 57.4 57.0 57.7	61.7 61.2 61.4 60.7 60.9	57.5 57.0 58.2 58.0 58.7	61.5 62.1 61.6 62.1 62.8

Figure 2 represents a graphic presentation of the results from this and similar studies since 1975. The speed values plotted in Figure 2 were obtained in the same way as those in Table 6. Only data collected at the 12 rural stations were used to calculate the values in Figure 2.

Table 7 shows the average speeds for all passenger cars, trucks of more than 5000 lbs. and trucks less than 5000 lbs. with and without the two urban interstate stations. The urban interstates were first monitored in 1975.

Table 7	: Averag	e Speeds	(mph)
---------	----------	----------	-------

	Passenger	Cars	Trucks Les Than 5000		Trucks 500 or More	00 lbs.
Year	12 Rural	All 14	12 Rural	All 14	l2 Rural	All 14
	Stations	Stations	Stations	Stations	Stations	Stations
1975 1976 1977 1978 1979 1980	58.5 57.5 58.2 58.2 57.1 56.7	58.7 57.6 58.2 58.2 61.8 56.8	57.2 56.3 57.7 57.9 57.2 56.8	57.4 56.4 57.8 57.8 57.0 56.6	57.8 56.4 57.0 56.6 56.0	57.5 56.6 57.1 56.6 56.1 56.1
1981	57.0	57.1	56.7	56.3	56.1	56.6
1982	57.2	57.3	55.8	55.9	56.4	56.3
1983	57.8	57.9	56.5	56.6	56.7	56.8
1984	58.1	58.3	56.7	56.9	56.9	56.8
1985	57.4	57.7	56.4	56.7	55.9	56.2

4. SUMMARY

Since the mean speeds are almost the same for the 12 rural stations (Table 7) as for the 14 urban and rural stations, there is no reason to expect that the results in Figure 2 would change significantly if the urban interstate stations were included in the analysis. However, for consistency in the analysis and historical reporting, the urban interstate locations are reported only in the various tables. A tabulation of speed changes from 1984 to 1985 is included in Table 8. The urban interstate highways showed speed increases (Table 8) in all three vehicle categories in 1985 from 1984. Heavy trucks registered the largest increase at 0.9 mph, passenger cars increased by 0.7 mph, and light trucks increased by 0.3 mph.

All three vehicle categories: passenger cars, light trucks (less than 5000 lbs.) and heavy trucks (greater than 5000 lbs.), showed decreases in speeds (Table 8) on Indiana rural interstates, 4-lane highways and 2-lane highways. The only exception was light trucks, which increased slightly by 0.2 mph on 2-lane highways.



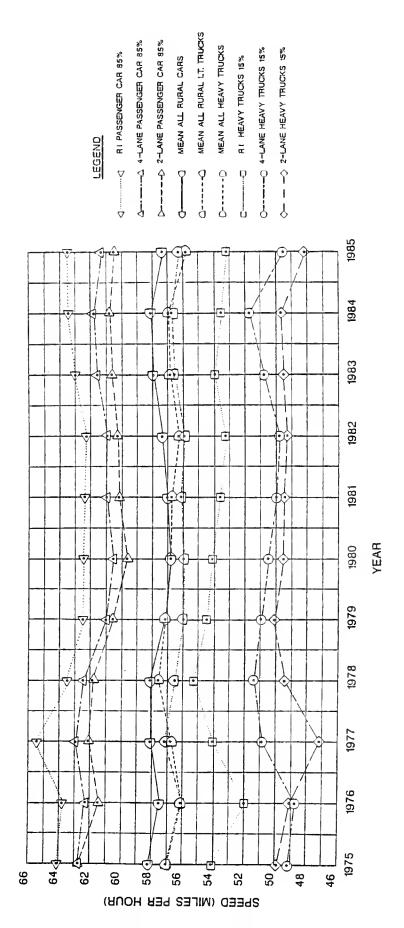


FIGURE 2. INDIANA RURAL SPEED TRENDS

The average speed of passenger cars on all types of rural Indiana highways decreased (Table 8) by 0.7 mph in 1985 from 1984. Average speeds decreased by 0.7 mph on 4-lane highways, 0.9 mph on 2-lane highways, while a decrease of 0.3 mph was observed on rural interstates. The 85th percentile of passenger cars on all types of rural Indiana highways also decreased by 0.5 mph from 1984.

The average speed of light trucks (less than 5000 lbs.) on all types of rural Indiana highways decreased (Table 8) by 0.3 mph in 1985 from 1984. The largest decrease in speed of 0.7 mph was observed on 4-lane highways; while rural interstates decreased by 0.4 mph. On the other hand, speeds on 2-lane highways increased slightly by 0.2 mph. The 85th percentile of light trucks on all types of rural Indiana highways decreased by 0.2 mph from 1984.

The average speed of heavy trucks (greater than 5000 lbs.) on all types of rural Indiana highways decreased (Table 8) by 1.0 mph in 1985 from 1984. The largest decrease in speed of 1.4 mph was noticed on 4-lane highways, followed closely by a decrease of 1.2 mph on 2-lane highways. A reduction in average speeds of 0.5 mph was observed on rural interstates. The 85th percentile of heavy trucks on all types of rural Indiana highways decreased by 0.9 mph from 1984.

Table 8: Summary of Changes in Speed (mph) from 1984 to 1985

Speed Category:	All Cars	L Trucks	H Trucks	All Veh.
Mean (Rural Interstate) Mean (4-Lane) Mean (2-Lane) Mean (All Rural) 15th % (All Rural) Median (All Rural) 85th % (All Rural)	- 0.3	- 0.4	- 0.5	- 0.2
	- 0.7	- 0.7	- 1.4	- 0.8
	- 0.9	+ 0.2	- 1.2	- 0.6
	- 0.7	- 0.3	- 1.0	- 0.7
	- 0.9	- 0.3	- 1.6	- 0.9
	- 0.7	- 0.5	- 1.0	- 0.7
	- 0.5	- 0.2	- 0.9	- 0.3
Mean (Rural Interstate) Mean (All-14) 15th % (All-14) Median (All-14) 85th % (All-14)	+ 0.7	+ 0.3	+ 0.9	+ 0.7
	- 0.6	- 0.2	- 0.6	- 0.5
	- 0.9	- 0.1	- 1.0	- 0.6
	- 0.5	- 0.4	- 0.5	- 0.4
	- 0.2	- 0.3	- 0.5	- 0.2

The 85th percentile, mean, and 15th percentile speed changes on all rural Indiana highways are also illustrated in Figure 2. The average speeds of cars, light trucks and heavy trucks have remained virtually the same since 1979. Mean and 85th percentile speeds dropped sharply from the summer of 1973 to to the summer of 1974 due to the implementation of the 55 mph speed limit.

The speeds varied slightly, up and down, from 1975 through 1978 (Figure 2); however, some stabilization was realized from 1979 through 1982. Speeds appeared to increase slightly in 1983 and 1984 above previous levels. A decrease in speeds was observed in 1985 for all categories, except for 85th percentile speeds for passenger cars on rural interstates, where no change occurred.

The 85th percentile speeds for passenger cars on 4-lane highways decreased by 0.6 mph (Figure 2) in 1985 from 1984, while 2-lane speeds decreased by 0.4 mph from 1984. No change in 85th percentile speeds were observed in 1985 from 1984 on rural interstates.

The mean speeds of all three vehicle categories, on all types of rural Indiana highways, decreased in 1985 from 1984 (Figure 2). Heavy trucks registered the largest decrease at 1.0 mph, passenger cars decreased by 0.7 mph, and light trucks decreased slightly by 0.3 mph.

The 15th percentile speeds for heavy trucks decreased sharply in 1985 from 1984 levels (Figure 2) in two highway categories. The largest decrease of 2.1 mph was observed on 4-lane highways, and a 1.6 mph decrease occurred on 2-lane highways. The rural interstates decreased slightly by 0.4 mph.

The mean speeds for all vehicles on all types of rural Indiana highways decreased (Table 8) in 1985 from 1984 by 0.7 mph. If the urban interstate locations are included in the analysis, the mean speeds for all types of vehicles on all types of Indiana highways decreased by 0.5 mph in 1985 from 1984.

The 85th percentile speeds for all vehicles on all types of rural Indiana highways decreased (Table 8) in 1985 from 1984 by 0.3 mph. If the urban interstate locations are included in the analysis, the 85th percentile speeds for all types of vehicles on all types of Indiana highways decreased by 0.2 mph in 1985 from 1984.

APPENDIX A

Speed Data (Tables Al to A20)

TABLE A1 : SPEED DATA

LOCATION: FIRST BRIDGE EAST OF BURR STREET INTERCHANGE HIGHWAY I-80794 STATION: U1-01

MD. OF LAMES: 6 TYPE OF SURFACE: ASPHALT

THIS OBSERVATION DATE: B/13/85 TIME: 12 43 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118)
DATE: 8/14/84
TIME: 10:05 AM

WEATHER: CLEAR

				PASSENGER	MGER CARS	ន					TRUCKS		1
				INDIANA	ANA	I-NON	MON-INDIAMA	। उ	ALL	00050	c LBS	>5000	0 185.
OBSERVA) 		PRES- ENT	LAST	PRES-	LAST	PRES-	LAST	PRES-	LAST	PRES-	LAST	PRES-
MUMBER O AVE. SPE STAMDARD	VEHICLES (MPH) EVIATION	330 57.26 4 335	303 57.53 3.673	179 56.98 4.264	132 56.64 3.674	151 57.60 4.408	171 58.21 3.533	26.39 4.512	323 57.08 3.843	92 57.08 4.820	75 57, 51 3, 379	215 56, 10 4, 352	248 56 98 4 033
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74 KPH				0	0	1	0	0	0		0	0
		io	io	0	Ó	Ó	0	ó	Ö	ó	ö	Ö	ó
	34 MPH	Ċ	ó	ó	٥	0	Ö	ő	ö	Ö	ó	0	ó
	BS HPH	0	ó	ó	ó	0	o.	Ö.	o.	Ö	ó	0	Ö
PERCENT	HAW TH	₩ (V)	0	0	ő		Ö	N 0	ල ල		ö	in Ö	
0.F	HUM ST	60.6	0 1	œ ni	5 1		ව ල	7. 13		m ri			4.0
VEHICLES	54 MPH		15,8	25.1			11.1	29.6	21.4				22. 6
TRAVEL ING	SP MPH	70.9	9.59	40.				76.2					75.8
LESS THAM	54 MPH	0) 0)	47 7	56. 1	100 0	94.0	0- 10-	1.78	97. 2	94.6	7.85	ng. 1	8 95
DR.	55 MPH	100 0	100 0	100,0				7 60					100.0
EQUAL TO	HAU TH		100 0	100 0	100		100 0	100.0		100 0			100.0
	79 MPH	100.0	100.0	100.0	100			100.0					100.0
	HAM TO	100.0	100.0	100.0	100			100.0		100.0		100 0	100 0
	89 MPH	100, 0	100.0	100.0			100.0	100.0	100.0	100.0			100.0
DIRECTION	EB	1			1	; 1 1 1 1							
# OF VEHICLES		166	171	4.	62	06		153	180	T U	05	ው ው	130
AVERAGE S DIRECTION: UR	E SPEED	56 83	57, 51	56, 55	36. 76	57 06	ι. υ. Β	56. 25	57. C7	46. B9	57, 24	5	57, 01
# OF VEHICLES AVERAGE	CTION: WE VEHICLES AVERAGE SPELD	164	132	103	56 53	58. 51. 51.	58.58	154 56. 49	143 57 09	37 38 34	25 28.04	116 56, 22	118 56 89
								. 1		1		1 1 1	1

TABLE A2 : SPEED DATA

STATIOM: UI-06 HIGHWAY: I-65 LOCATION:

LOCATION: 1.0 MILE NORTH (WEST) OF WHITE RIVER (TEMPORARY DUE TO CONSTRUCTION IN AREA)

ND. OF LAMES: 4 TYPE OF SURFACE: CONCRETE

WEATHER: CLOUDY

THIS OBSERVALION DATE: 8/20/85 TIME: 1:23 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118) DATE: 7/31/84 TIME: 10:09 AM

ALL INDIANA PRES- RES- RES- RES- RES- RES- RES- RES-	1	7 94	NON-INDIANA	4 !	ALL	<5000	o LBS.	>5000	0 LBS.
DBSERVATION	AA		PREST						
AVE. SPEED (MPH) 59,79 60 64 59,71 60 58 STANDARD PEVIATION 4,215 4 954 4 241 5,073 24 MPH 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	24 20 20 20 20 20 20 20 20 20 20 20 20 20			LAST	PREST	LAST	PRES- ENT	LAST	ENT
24 MPH 0. 0. 0. 0. 0. 0. 0. 27 MPH 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	က က ပြင်ဝင်ဝင် ၁၈၈၈	0.	134 50.79 4.679	209 57.92 4.555	216 58.57 4.213	59.11	108 58,96 4 445	111 55.87 4 069	108 58.18 3.950
29 MPH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ကောက် လွှော်လုပ်လုပ်လုပ် လူတွာ	,				1			
34 MPH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ကောက ဖွဲ့လွဲလွဲလွဲလွဲ ဖွဲ့လွဲလွဲလွဲလွဲလွဲလွဲလွဲလွဲလွဲလွဲလွဲလွဲလွဲလ	C	c	i c	i c	i c	0 0	ć	i c
T 44 MPH 0. 0 0 0 49 MPH 0. 0 0. 0 0 49 MPH 0. 40. 0. 0 0 ING 59 MPH 48. 42. 9. 48. 42. 9. 11. 7 ING 59 MPH 48. 42. 9. 48. 43. 3 11. 7 79. 2 6. 0 TO 74 MPH 99. 1 96. 1 99. 1 96. 0 TO 74 MPH 100. 100. 99. 1 100. 99. 1 TO 79 MPH 100. 100. 100. 100. 100. 100. 100. 100.	တလု ဝေဝဝ လုံငွာ ဝေဝဝ ဝေဝ လုံငွာ ထားကလ	io	Ö	ó	Ó	Ö	i d	Ö	jo
T 44 MPH 0 0 0 0.5 1.1 ES 54 MPH 9.2 10.3 9.9 11.7 ING 59 MPH 48.8 42.9 48.4 43.3 HAN 64 MPH 87.2 79.8 87.7 79.2 69 MPH 99.1 96.1 99.2 96.0 70 74 MPH 100.0 100.0 100.0 100.0 84 MPH 100.0 100.0 100.0 100.0	တက တိတ်တ် တိတ်တ်	ö	ó	Ö	Ö	ó	Ö	Ö	ó
49 MPH 0.4 0.8 0.5 1.1 ES 54 MPH 9.2 10.3 9.9 11.7 ING 59 MPH 48.8 42.9 48.4 43.3 HAN 64 MPH 87.2 79.8 87.7 79.2 69 MPH 99.1 96.1 99.2 96.0 70 74 MPH 100.0 100.0 100.0 99.1 75 MPH 100.0 100.0 100.0 100.0	တက္ လက်စွဲ လာကစ	Ö	0	1.0	ö	1.0	ö		ó
ES 54 MPH 9.2 10.3 9.9 11.7 ING 59 MPH 48.8 42.9 48.4 43.3 HAN 64 MPH 87.2 79.8 87.7 79.2 60.0 TO 74 MPH 99.1 96.1 99.2 96.0 77 MPH 100.0 100.0 100.0 99.1 79 MPH 100.0 100.0 100.0 100.0 84 MPH 100.0 100.0 100.0 100.0	មាន មេនិង មេនិង	1 0.	ó	9.8	0	0 0	o.	T)	
ING 55 MPH 48.8 42.9 48.4 43.3 HAN 64 MPH 87.2 79.8 87.7 79.2 69 MPH 99.1 96.1 99.2 96.0 TO 74 MPH 100.0 99.2 100.0 99.1 79 MPH 100.0 100.0 100.0 84 MPH 100.0 100.0 100.0	5 5 5		0	19.6	15.7	13.3			16.7
HAM 64 HPH 87.2 79.8 87.7 79.2 6.0 69 MPH 99.1 96.1 99.2 96.0 TO 74 MPH 100.0 99.2 100.0 100.0 100.0 84 MPH 100.0 100.0 100.0 100.0 100.0	+ 0,0		41.8	64.6		55, 1			66. 7
59 MPH 99.1 96.1 99.2 96.0 TO 74 MPH 100 0 99.2 100.0 99.1 79 MPH 100.0 100.0 100 0 84 MPH 100.0 100.0 100.0	F 100 B		81.3	93. B	90.7	88.8	88.0	57.0	93. 5
70 74 MPH 100 0 59.2 100.0 59.1 75 MPH 100.0 100.0 100 0 100 0 84 MPH 100.0 100 0 100.0 100 0	1 99.0		96.3	99.0		റ 86	99.1		99.1
MPH 100.0 100.0 100.0 100.0 MPH 100.0 100.0 100.0	2 100.0		99.3	100.0	100.0	100.0		100.0	100.0
MPH 100.0 100 0 100.0 100.0	0 100 0 1			100.0	100.0		100.0		
	0 100.0 1		100.0	100.0		100.0			
0 100,0 100,0	0 100.0 1		100.0	100.0		100.0			
DIRECTION: SB		1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! !]
193 242	162 1	7 31	68	111	131	54	9.	57	62
50 04 50.	50 04 50.	60.	62, 20	58, 56	59, 25	89,39	99. GG	57, 77	59, 15
# DF VEHICLES 250 240 212 174	(a)		53	86	υ: (C)	4	tr (T)	η. 4	4.6
4 54 46 6 0	4 54 46 6 0		59,46	57, 19	57, 52	58, 77	58, 28	55, 91	56.87

TABLE A3 · SPEED DATA

STATION: RI-06 HIGHWAY: I-65 LOCATION

LOCATION: 7.5 MILES NORTH OF SR 160, MILE MARKER 22.5

ND. OF LANES, 4 T

TYPE OF SURFACE, ASPHALT

WEATHER: OVERCAST

THIS OBSERVATION DATE: 8/1/85 TIME: 4:24 FM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118) DATE: 5/9/84 TIME: 9:45 AM

7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1		FASSE	ASSENGER CAR	สธ					TRUCKS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
20 may may she may she as 100 mg	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ACE		INDIANA	ANA	MON-I	40M-INDIAMA	ı ∢	ALL	<5000	o Les.	00054	0 685
OBSERVATION	WIDE	LAST	PRES- ENT	LAST	PRES-	LAST	PRES-	LAST	PREST	LAST	PRES- ENT	LAST	FREST
MUMBER OF VEHICLES 278 AVE. SPEED (MPH) 60.29 STANDARD DEVIATION 4.628	VEHICLES > (MPH) EVIATION	275 60.29 4.698	325	160 59, 41 4, 319	100 to the contract of the con	116	162 60.14 4.379	211 58.31 3.928	146 67.78 3.778	59.50 4.061	57.74 4.297	167 58.00 3.843	128 57 69 3.488
	N4 70H	0	0		0	0	! ! ! !	0					0
		ó	io	0	Ö	ာ	ó	ó	i o	i ci	9 0	i င	0
	34 MPH	Ö	Ů	Ö	Ó	Ö.	Ö	O	0	0	0	Ö	0
	DO MPH	Ó	Ö	Ó	Ó	ó	Ö	Ó	Ö	Ó	Ö	Ö	Ö.
PERCENT		Ó	Ö.	Ö	Ö	0	Ö	Ö	ó	0	Ö	0	O
40		, m			rd H	Ö				ర	ci o		
VEHICLES		. G	g. Gr				ю В	13.7	18.4	0.			
TRAVELING	្រ- ហ	43.1					प ए- न			54.5			
CESS THAN	Ą	507	84.0	90,0	87.1	ທ ປ	BO . 4	0- 0-	95 9	81.8	9 5 5	S. S. S.	96
Ę,	Ģ-	J. J.	4.05				4.55						
EGUAL 10	Hail by	D- 100 G-					100 0			100 0			
		i i i	100.0		100.0	95. 1	100.0					100 0	
		100.0			100.0	100 0	100.0						
	Hall 68	100.0	100, 0	100.0	100.0		100 0	100.0	100.0	100.0		100.0	
BIRECTION. RB			1			1 1 1 1 1		1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1	1 1 1	1	1 1 1 1 1 1
1011101	ir Tu	118	166	Ф (С)	なな	U	.1	102	Ω- 4	in n	96	r. r.	co co
AVERAG	AVERAGE SPEED	60, 91	さいい	59, 80	3.4	61, 90	60, 50	58.66	57.95	59, 68	57,72	58 33	\$8 04
DIRECTION SE	25												
# OF VEHICL	D)	153	()·	104		4	(J)	105	102	D.	n n	ů.	01.
AVERAG	AVERAGE SPEED	5.43 5.43 5.43 5.43 5.43 5.43 5.43 5.43	(1) (1) (1)	E E E	59 07	61 07	59,87	57.99	57, 52	59.26	57, 88	57 72	94. GB



TABLE A4 : SPEED DATA

HIGHWAY 1-74 STATION: RI-12

LOCATION: 7.0 MILES WEST OF SR 9, MILE MARKER 106 (TEMPORARY DUE TO COMSTRUCTION IN AREA)

WEATHER: SUNNY, CLEAR TYPE OF SURFACE: COMCRETE NO. OF LANES: 4

LAST PREVIOUS OBSERVATIOM (SPEED REPORT NO. 118)

DATE:		7/17/85 12:10 FM	2			i		DATE: 6/5/84 TIME: 10:47 AM	4 AM				
, , ,	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	PASSENGER	GER CAR	RS	1		; ! !	1	TRUCKS		
		 ALL	1	INDIANA	AMA	MOM-1	MON-INDIAMA	ं द	ALL	(200)	(5000 LBS.	>500	>5000 LBS.
OBSERVATION		LAST	PRES-	LAST	PRES-		PRES-	LAST	PRES	LAST	PRES- EMT	LAST	PRES
MUMBER OF VEHICLES 2998 AVE. SPEED (MPH) 59.77 STAMDARD BEVIATION 4.716	183 18	255	345 59.41 4.719	0.00 0.00 0.00 0.00 0.00	50 00 to 00	60, 48 4, 958	110 59.55 4.534	205 57. 63 3. 747	202 57 71 4 504	76 57 75 3.637	86 57 49 4.806	124 97.57 3.822	116 57 87 4.280
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MPH MPH MPH MPH	0000	0000	10000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	Z E E	۶ ۵ و و				- - -		ur; ooʻ⊬	တ် ရ				
ጉ ህ የ የ ሀን ያ				9 60 5	- 60 t			17.1 68.8	22. B	13. 63. 7 7.	23 69 14 89 14	1.0 0.0 0.0 0.0	23.3
	Ha	00 c						96.1	90.6				
TO C.	Harr							100.0 100.0	100.0			100.0 100.0	
1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	FEH	ا بدا (ا بی ا ا بی ا	00	100 0		0.00		100.0	100.0		100		
	MFH MFH		100, 0 100, 0	100.0		100.0	100 0	100.0	100.0	. 1	1		
DIRECTION EB OF VEHICLES AVERAGE SPE		់ ! មិ ម ! ២ ម ! ២	177	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	103 59 61	43	89 69 69	107 57.15	93	35 57, 64	97. 28	71 56.90	4 4 10 0 10 0 10 0
ເສຍ ເສຍ	1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	157	T-4	1100	. 15-		কক	9.4	ω 1		47 57 66	58 58 38	62 58, 48



TABLE AS SPEED DATA

LOCATION 1 6 MILES SOUTH OF SR 18, MILE MARKER 52.6 HIGHWAY: 1-69 STATION: FI-21

TYPE OF SURFACE ASPHALT MO. OF LANES: 4

THIS OBSERVATION DATE: 973785 TIME: 5:44 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118)
DATE: 5/16/84
TIME: 1:36 PM

WEATHER: CLEAR

				PASSENGER		CARS					TRUCKS		
	1	A	!	INDIANA	ANA	MON-1	HOM-INDIANA	1 4	ALL	(500)	<pre><sood lbs.<="" pre=""></sood></pre>	>5000	587 0
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES-	LAST	PRES-	LAST	PRES	LAST	PRES-	LAST	PRESC
NUMBER OF VEHICLES 281 AVE. SPEED (MPH) 59 44 STANDARD BEVIATION 4 193	VEHICLES (MPH) EVIATION	59 44 4 193	321 59 34 4.496	199 49.48 4098	200 59.04 4.565	122 59.39 4.384	88 60.14 4.219	179 58 59 4. 134	208 57.09 4.253	57. 47 4. 024	58.01 5.378	147 58 83 4 130	137 56 61 3.458
	Σ	0	0		0	0	0	0	0	0	0	10	10
	29 MPH	Ö	0	ó	Ö	o.	Ó	ó	Ö	o	Ó	Ó	Ó
	HAM FO	Ö	Ö	¢	ó	0	Ö	ó	Ö	0	Ö	Ó	0
		Ö	Ö	Ů	¢	Ö	ö	Ö	ö	Ö	Ö	ó	ó
PERCENT		0	0	0	+ 0	0	ó	0		0		Ö	0
r C	Hay St	1 1	1.6	1.5	3.1	ó	Ö		ง เก่	3.1			F1
VEHICLES	T)	10.0		Ø.	14.2	13 9	r)	14 0		18.8		ë G	
TRAVEL ING	(ታ- ሆነ	1 75	(1) (1) (1)	in O		000			72 1			යම් ආ	78.8
LEGG THAM	4	00.00		84 8	8E. 8	(1) (2) (3)	67.5			\$ 95			0. 0.
Œ.	ij.	かんか	1 85				56.6					9E. 6	100 0
EGUAL TO		100.0	9. 4.	100.0		100 0			100.0		100.0		100.0
			100.0		100.0	100 0	100.0	100.0	100.0	100.0		100.0	100 0
	84 MFH	100 0	100.0					100.0		100,0	100 0		100.0
	ES MPH	100 0	100 0	100.0	100.0	100 0	100 0	100.0	100.0	100.0	100.0	100.0	100 0
BIRECTION: NB	NB NB		! ! ! !	1	 	! ! ! !] ; ! !]] ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 - - - - - -	1	1
# OF VEHICLES	E 5	161	160	91	113	40	4.7	83	100	16	9	67	33
AVERAGE		55 17	59 81	59, 07	0-7 65	59 30	60, 60	58, 45	57.76	57, 75	58, 63	59.61	57, 35
DIRECTIONS	3S												
# OF VEHICLES	ES	120	161	48	120	S)	## ##	95	108	16	9	00	9
AVERAGE	E SPEED	99 91	යුල පුළ	60.03	58, 63	59, 52	59, 61	58, 71	56 46	57 19	57 51	55 01	55.87

TABLE A6 : SPEED DATA

STATION: RI-34 HIGHWAY: 1-65

LOCATION: 2.0 MILES SOUTH OF SP 39, MILE MARKER 135

MO. OF LAMES: 4

TYPE OF SURFACE: ASPHALT

WEATHER: BRIGHT, CLEAR

THIS OBSERVATION
DATE: 7/23/85
TIME: 2:29 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118) DATE: 7/24/84 TIME: 11:31 AM

		1	1	PASSE	ASSENGER CA	CARS					TRUCKS		
	! ! ! !	114		IMDI	INDIANA	NON-I	MON-INDIAMA	1 4	4LL	(500	CSOOO LBS.	>5000	0 L85.
OBSERVATION	NOIL	LAST	PRES- ERT	LAST	PREGL	LAST	PRES-	LAST	PRES-	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES AVE. SPEED (MPH) 5 STANDARD BEVIATION 4	VEHICLES (MPH) SVIATION	371 59 68 4. 531	372 59.62 4.961	214 58,99	254 59.28 4.298	157 60 62 4, 500	118 50.35 4.101	266 58.23 4.769	204 58.37 4.487	58. 64 5. 062	58. 65 4 994	176 58.01 4.612	127 58 20 4 162
		Ó	Ö	o	0.0	0.0	0	0		0			
	NS MPH	ó	ó	Ö	Ö	Ó	ic	ic	jc	i c	ρţ	o c	s c
		Ö	Ö	Ó	Ö	O	Ö	io	်ဝ	<i>i</i> 0	9 12	iο	s c
		Ŭ	Ö	Ö	ö	Ö	Ö	Ó	Ó	i c	ic	ic	<i>i</i> c
PERCENT		Ö	Ó	0	Ö	Ö	Ö		d	; ,-	ic		i c
		1 1		1. 4	O. B	0.6	Ö			e m	, 0		
VEHICLES			10, 8			6.4	o. O	20°.0	19. 6	20.0	() ()	(d)	. 40 . 10 . 10
のというはいない。		e P		60 0	ri Ei		35.6			51.1	58. 4		
	OF MPH	-0 - 100 i				10 m	86.4	ς: Ε)		92.2	90.0	0 0	0-
							(I)			00 1~ 0·			
D. Jacket	H42 + 1	ירו ני- ני-		100 0	100.0		100.0			100.0	ь. О	100.0	
						90,4	100.0			100.0		100 0	
	1 Z 1 Z 1 Z 1 Z 1 Z 1 Z 1 Z 1 Z 1 Z 1 Z			100.0	100.0		100 0	100.0		100.0	100.0		
the day day and the pay day pay in a pain.	Hall 45	100 0	100.0		100 0		100 0		100.0	100.0			
DIRECTION:	NB NB				!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!	1	1	1	1	1	1
# OF VEHICLES	ស	195	ሆ) ሆ: 1	7	126	S S		1.40	100	47	ন ন	102	٠-C تا:
AVERAGE S DIRECTION: SB	. SPEED SB	55.41	59 47	58, 78	58, 94	60,33	5C 43	57, 48	58, 94	58, 36		57.07	59.04
# OF VEHICLES AVERAGE	SPEED	175 59,98	177 59, 80	00 00 00 00 00	128 59 62	77 60.92	49	117 59, 18	104 57 82	58, 43	99 83 83	10 10 10 14 14	71
1-1-1-1-1-1-1	1111111	1 1 1 1 1 1											

TABLE A7 SPEED DATA

HIGHWAY: US SE STATION: 4L-17

LOCATION: 0 25 MILE EAST OF SR 231 (TEMPORARY DUE TO CONSTRUCTION IN AREA)

WEATHER: BRIGHT, CLEAR

NO. OF LANES: 4

THIS UBGERVATION
DATE: 7/22/65
TIME: 2:10 FM

TYPE OF SURFACE: ASPHALT

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118)
DATE: 5/22/84
TIME: 8:07 AM

				PASSE	ASSENGER CA	CARS	! ! ! ! !	1 1 1 1 1 1		1	TRUCKS	1	t t t
1	1 1 1 1 1	ALL	<u></u> j	INDIANA	वाक	NON	NON-INDIAMA	ı∢(ALL	(500	C5060 LBS.	>5000	O LBS.
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRESI	LAST	PRES-	LAST	PREGL	LAST	PRES-
MUTBER OF VEHICLES 287 AVE. SPEED (19PH) 56.98 STANDARD DEVIATION 4.185	VEHICLES (MPH) (EVIATION	56.98 4.185	387 5 5 70	253 26.98 4.222	66. 69 4. 49	36. 34 40. 30 400. 60	200 . 200 4	167 56.73 5.383	215 52.87 6.643	169 56,95 5,003	1 10 m	56 31 56 31 5.059	90.43 7.449
	S4 MPH	0	0	0	0	0	0.	0.	0	0	0	0	0
	HAW 60	Ö	0	ó	Ö	O	ó	0.6	Ö	ં હ	ြင်	۰4 نبر ز	Ö
		٥		ó	ю О	Ö	o o		0 0		0		
		Ö		ó		ó	ó		e) til		Ö		5 6
PERCENT		0 0	(PT Fig	0	2. 7	0	ö	2.4	17.2	1.8		(i)	34. 4
OF		0 5		in ហ	ű.	g- g)			25.6				
VEHICLES		h- च []	36 4	Ui A	0.70		31.6	26. 9	58.1	Κ.	52.0		66. 7
TRAVEL ING		72. B	79.1	n ni	αi	76.5			86 0				
LESS THAM		in 10.		÷ 95					5.95				
FD.		K 0000	100.0	30 GG					99.00				
EGUAL 10		100 0		100.0					99.5				
		100		100 0	100.0			100.0	100.0	100.0			
		100	100.0	100, 0		100.0			100.0				
	DO TOIL	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100 0	100.0	
BIRECTION: E	ES	162	192	148	170	 	1 (A	08	0-	S	29	្រ ! ហ្គា ! !	; ; ; ; ; ;
ACERAGE OF TOTAL	AVERAGE SPEED CTION IN	57.44	ტ ტ ტ	ሆ) ተ (-) ሆ)	54, 55	57.29	54. E6	56.89	53, 26	57, 65	53, 90	55.46	52, 00
# OF VEHICLES	ញ ទ ទ	(1) (1)	() ()	 () ()	160	ت (۱	(C)	.1 Ω	101	1. T	i,	t,	ď
AVERAG	AVERAGE SPEED	56.38	56 78	50.01	56.81	56 70	56.69	56.33		56, 32	55.33	57 10	45, 57
				1							,)	5

TABLE AB : SPEED DATA

HIGHWAY US 41 STATION 4L-20

LOCATION: O B MILE NORTH OF SR 2 (TEMPORARY DUE TO COMSTRUCTION IN AREA)

NEATHER DVERCAST

TYPE OF SURFACE ASPHALT MO. OF LANES: 4

THIS OBSERVATION DATE: 8/14/85 TINE: 12:36 PM

LAST PREVIOUS DESERVATION (SPEED REPORT NO. 118) DATE: 5/23/84 TIME: 10:20 AM

	LBS.	RES-	105 16. 20 1823	00 00 00 00 00 00 00 00 00 00 00 00 00	946.2	4, 11, 68
	>3000 (t.	120 13, 00 110 4	<u> </u>	N00000	20
		LAST	ชา -1 เข	သံတ်ထဲကလာတွေးလျှင့်	88 001 001 001 001	S. B.
TRUCKS	CSGOO FBS.	PRES- ENT	120 57.02 5.240	4 10 10 10 10 10 10 10 10 10 10 10 10 10	98.5 99.2 100.0 100.0 100.0 100.0	55. 93 60 60 58. 10
	0200	LAST	\$6.80 5.049	909099999 4087	97.6 100.0 100.0 100.0 100.0	55, 39 43 58, 14
!	ALL	PRES- ENT	56 64 5 035	7 8 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99, 1 100, 0 100, 0 100, 0	55. 24 128 57. 70
1	A	LAST	204 55. 74 6. 391	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		52, 75 108 58, 39
	MOM-INDIANA	PRES- ENT	83 59.04 4.977		84.3 96.4 98.8 100.0 100.0	58. 15 37 60. 14
ហ	MOM-11	LAST	73 58.04 4.074	20000-ing	91 8 98.6 100 0 100 0 100 0	33 57. 12 40 58. 80
HEER CARS	নাক	PRES- EMT	194 57 60 4 388	ଳ ମା ନ ଫରିପ ପରିମ ପିର ମାନ	93 3 95 0 100 0 100 0 100 0	104 57, 44 50 50 57 78
PASSENGER	INDIANA	LAST	100 m m m m m m m m m m m m m m m m m m	အ ၁၈၈၈ ဝဝဝင် လုပ်လုတ် လုပ်လုပ်လုံ ၁၈၈၈	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	60 60 60 60 60 60 60 60 60 60 60 60 60 6
,		PRES- ENT	58 03	က် ကို တွင်လာတွင်းကို ကို တွင်လာတွင်းကို ကို		150 57 66 127 58 46
:	AL	LAST	280 57 55 5.408	ခေတလာက တွေ့လိုင်း တွေလိုင် လိုလိုင်း	92.3 98.5 94.5 97.6 100.0	123 55, 89 137 59, 04
		VT 1:014	VEHICLES (MPH) EVIATION	4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		CTION: NB VEHICLES AVERAGE SPEED CTION: SB VEHICLES AVERAGE SPEED
		OBSERVATION	WUMBER OF VEHICLES 250 AVE. SPEED (MPH) 57 55 STAMBARD DEVIATION 5.405	PERCENT OF VEHICLES TRAVELING	LESS THAN OR EQUAL TO	DIRECTION: N # OF VEHICLES AVERAGE DIRECTION: S # OF VEHICLES

TABLE A9 : SPEED DATA

STATION: 4L-21

HIGHWAY: US 31

LOCATION: O 8 MILE NORTH OF SR 38 (MOVED DUE TO CONGESTIVE AREA)

OF LAMES: T.

TYPE OF SURFACE ASPHALT

WEATHER: CLEAR

THIS OBSERVATION DATE: 8/18/85 TIME: 2:14 PM

LAST PREVIOUS OBSERVATIOM (SPEED REPORT NO. 118)
DATE: 5/29/84
TIME: 10:03 AM

		i		PASSE	PASSENGER CARS	R.S					TRUCKS		1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	A	<u>.</u>	IMDIANA	ANA	I-MON	NOM-INDIANA	ı «	ALL	02000	G LBS.	00050	O LBS.
OBSERVATION	NOIL	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES-	LAST	PREST	LAST	PREG	LAST	PRES
MUMBER OF VEHICLES 348 AVE. SPEED (MPH) 58.59 STANDARD DEVIATION 4.616	VEHICLES (MPH) EVIATION		1 1	282 58,41 4,708	364 57.32 4.477	59.35 4.149	58.36 4.462	210 56.19 4.814	179 54. 18 5. 069	112 56.58 5.243	\$7.03 5.008	2 4 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	81 55.16 4.981
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1				1	1 1 1 1 1 1 1	1	1	1	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
		Ċ	ర	Ö	Ö	Ö	Ö	ó	ં	ö	ö	Ö	ó
		ó	0	Ö	Ö	ö	O	ó	Ö	Ö	Ö	Ö	Ö
	34 MPH	O	Ö	ó	ö	Ö	Ö	ó	Ö	Ö	0	0	0
	SP MPH	Ö	٥	ó	٥	Ö	Ö	Ö	Ö	Ó	Ó	Ö	Ó
PERCENT	44 MPH		ó		ó	Ö	Ö	1.9	0		O	100	
70	HUM 54	හ භ	4.6	හ ල	4	1.5	9. 6	(r.	G.	10.7			14.8
VEHICLES	St MPH	16 4	24 6			10.6	15. A	32.4	39.1		33. 7	36. 7	
TRAVEL ING		9.6 0			59.5	50.0	62, 5	76.2	74.3		68.4	75.0	
LESS THAN	64 MPH	71.1	9 8			84.8		56.2	92.7		00°		
195	45 MPH	9B. 6				100.0		9. G	99. 4		0.56		
EQUAL TO		100	100.0	9 5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		100.0			100.0	100.0		100.0	100.0		100.0		
	B4 MPH	100.0				100.0	100.0	100.0	100.0		100 0		
	89 11PH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	
DIRECTION: NB	NB	! ! !	1	1	 	1	1		1		!	1	1
# OF VEHICLES	ES	163	207	133	174	30	93	105	999	ю Э	9	ָרָיי ער:	75
AVERAGE	E SPEED	58, 24	56.30	58, 38	56, 13	57, 67	57, 21	55, 38	53 69	54.86	94 19	55. 92	53.27
DIRECTIONS	5B							;			•		j
# OF VEHICLES	ES	185	10.40 10.40	145	150	96	ហ ហ	101	111	10. 20.	, 1 }	4) ()	44
AVERAGE	E SPEED	58.83	58.55	58,44	56,41	60, 75	59,03	57.06	57 71	30 gr	58 34	υ: υ:	26 75
							1)				1	

TABLE A10 : SPEED BATA

STATION: 4L-02 HIGHWAY, US 30 LDCA

30 LOCATION: 3.4 MILES WEST OF US 421

NO. OF LANES: 4

TYPE OF SURFACE: ASPHALT

-T WEATHER: OVERCAST

THIS OBSERVATION DATE: 9/4/85 TIME: 11:08 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118) DATE: 5/31/84 TIME: 10:15 AM

	: 1 1 1 1 1			PASSE	ASSEMBER CA	CARS	1	1	! ! ! ! ! !	1	TRUCKS		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	AL.L		INDIANA	AMA	I-NON	MON-INDIAMA	∢	ALL	<5000	o LBS.	>5000	O LBS,
OBSERVATION	1101.1	L.AST	FRES- ENT	LAST	PRES- EMT	LAST	PRES-	LAST	PREG-	LAST	PRES-	LAST	FRES-
	VEHICLES (MPH) EVIATION	204 58 58 4. 498	276 57.80 4.437	136 58.31 4 731	208 57 33 4. 491	88 59 01 4, 45B	59, 18 3, 992	255 58 45 4. 401	269 57.35 4.678	58. 18 5. 057	56 81 56 81 5 623	188 58.54 4.153	173 57 64 4.043
} 	1		! ! ! !		1	1 1 1 1 1 1	1 1 1				1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1
		Ü	0	0	Ö	Ö	ö	ci	Ó	Ö	Ö	Ö	Ó
	NO MET	O	0	Ö	Ó	ó	0	Ó	Ó	o	Ó	Ö	ic
	G4 MPH	ö	Ö.	O	Ó	Ö	0	Ö	O	c	i c	ic	ic
		0	ó	ó	ŏ	ó	Ö	0.4	Ö	ري ري	Ö	io	i c
PERCENT	44 MPH	6. 0		0.7	10	1.1	ó	0	0.7		'n	c	10
ار ا	HUM 54	r.i	rvi cvi	ام ان	ซ เก่	1 1	ó		4	ψ.	7	in o	
VEHICLES	54 MPH	17 4		0- 0-	25 4		r) r)	14.9	27. 1		. m		
TRAVELING		50 7	66.7	64.0		55.7		58.8	71.7	0.00	74.0		
LESS THAM		83		4006				95. Z	93.7		000		
		1 65		00		5 85		9.85°	95.3		. U.		
EQUAL 10		100.0		100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	
		100.0		100 0		100 0		100.0	100.0		100.0		
		100.0	100.0	100.0		100 0		100.0	100.0		100 0		
	Holl on	100.0		100.0		100 0	100.0	100.0	100.0		100 0		100 0
DIRECTION	EB		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1 1 1 1 1 1 1		!		1	1	1	1
# OF VEHICLES	ស្ល	110	143	76	104	41	38	125	142	34	9	g.	99
AVERAGE SPEED DIRECTION: WB	SPEED WB	59, 17	ରଷ. ଜଣ	58.87	57,58	59,73	99. G4	57 86	58, 24	57, 38	58, 34	58.04	58, 17
# OF VEHICLES AVERAGE	SPEED	105 57.92	134	57 57 50 50 50 50 50	104 57. 13	5.00 A.7	30	130	127	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	40	ρ. 	87
	1	1	1		. !		j	5)				

TABLE A11 : SPEED DATA

STATION: 2L-18

HIGHWAY: US 35

LOCATION: 2.5 MILES EAST OF 1-69

NO. OF LANES:

IYPE OF SURFACE: ASPHALT

THIS 085ERVATION DATE: 7/30/85 TIME: 12:43 PM

WEATHER: HAZY

LAST PREVIOUS OBSERVATION (SPEED REPORT NG. 118)
DATE: 5/18/84
TIME: 10:55 AM

		}	1 9 1 1 1 1	PASSE	ASSENGER CA	CARS					TRUCKS	 	
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	!	ALI		INDIANA	ANA	NON-I	INDIAMA	i ∢	ALL	<500	<5000 LBS.	000000	O LBS.
OBSERVATION	MOIL	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES-	LAST	PRES-	LAST	PRES-	LAST	PREST
MUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	VEHICLES (MPH) EVIATION	5 056 5 60 5 813	351 53.99 5.033	232 56,50 5.313	32. 62 53. 62 5. 380	67. 47 4. 403 4. 403	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	168 55, 26 5, 600	202 52.13 5.382	61 55.67 5.612	113 53, 76 4, 819	107 55.37 5.616	89 50.06 5.371
PERCENT OF VEHICLES TRAVELING LESS THAN OR EQUAL, TO	24 MPH 29	00000000000000000000000000000000000000	00000000000000000000000000000000000000	00000000000000000000000000000000000000	0.00 9.00 9.00 9.00 9.00 9.00 10.00 10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.07 0.07 0.07 0.00 0.00 0.00	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 00 4 4 4 6 9 00 00 00 00 00 00 00 00 00 00 00 00 0	0.00 0.00 0.00 0.00 100.00 100.00 100.00 100.00	00 00 11 12 12 14 14 14 14 14 14 14 14 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16	0.00.00 175.3 25.00 100.00 100.00 100.00 100.00
DIRECTION EB # OF VEHICLES AVERACE S DIRECTION: WB # OF VEHICLES AVERACE S	ES SPEED WB SS SPEED	117 56.78 149 56.50	80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	102 56. 61 130 56. 41	136 54, 71 188 52, 82	57, 53 57, 53 57, 16	52, 46 53, 17	100 56.09 68 54.04	110 52.15 92 50.50	55. 68 55. 68 54. 30	54 43 53.55 53.55	66 56.30 41 53.88	51, 73 51, 73 47, 70



TABLE A12 : SPEED DATA

HIGHWAY: US 231 STATION: 2L-54

LOCATION: 0.5 MILE SOUTH OF SR 234

WEATHER: OVERGAST TYPE OF SURFACE: ASPHALT OF LANES: 2 2

THIS OBSERVATION DATE: 9/5/65 TIME: 3:11 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118)
DATE: 7/23/84
TIME: 9:45 AM

		! ! !	1 ! ! ! !	PASSENGER	MGER CARS	20		İ) 	TRUCKS	; ; ;	1
		AL!		INDIANA	ANA	NOM-I	40M-INDIAMA	₹	ALE	(200	GOOG LBS.	>5000	CBS.
OBSERVATION	1100	LAST	PRES	LAST	PREST	LAST	PRES	LAST	1	LAST	PRES- ENT	LAST	PRES-
MUMBER C AVE. SPE STANDARD	VEHICLES (MPH) EVIATION	25. 72 56. 72 4 740	396 58.16 5.563	226 36.74 4.768	38.13 38.13 440	24 54.54 4.559	13 59.00 2.236	197 56.01 5.776	202 57.07 5.339	115 56.11 6.036	127 57.32 5.250	50 50 50 50 50 50 50 50 50 50 50 50 50 5	73 56. 63 5. 433
1	Hay to		0	0		0.0	0.0	0	Ö	Ö	Ö	Ö	Ö
		0	Ó	d	Ó	ó	Ö	O	ó	ó	ó	Ö	Ö
		0	Ó	Ó	Ó	Ö	ö	о Ф	ó	6 0	Ö	ó	o
		0	Ó	ó	Ö	Ó	Ó	1.0	ö	1.7	ó	Ö	Ö
PERCENT		1 D		Ó			Ö		છ હાં				r- ci
70		e T			(V		Ö		7.4				11.0
CEHICLES		(u (v)	20.4	32. 7	(21. 4s	20.0	ö		4. 00	33. B	21. 7	6. 0.	30.1
TRAVEL ING		(A)							5 89			80.8	72.6
LESS THAN		\$ 100 G	 			_	100.0		1 0 5				94.5
O.B.		ה ס-							90.0			100.0	
EGUAL TO		100 0		100.0				100.0	100.0	100.0	100.0		100.0
		100.0							100.0			100.0	
		100 0		100.0				100.0	100.0	100.0		100.0	
		100.0	100 0	100.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION:	NB NB		1	[1	1 1 1 1 1	 						!
# OF VEHICLES	ES	123	171	118	7~4				9	23		(C)	ന ദ ന ദ ദ
AVERAG	111	57.04	58, 68	97, 36	58 64	57.10	60, 50	57 .45	58. 14	57, 74	58.00	97. CO	00.00 0.00
DIRECTION: S # OF VEHICLES	CTION: SB VEHICLES AUGRAGE SPEED	123 123	ር ርዕ የጋ ተ የጋ ተ	108 108	נח לי מוני	ብ ት ተ	უ ტ ლ	106 54 76	118	54. BO	80 56. 90	40 54, 70	35, GS
	יון אין אין אין אין	יי כי יי כי יי כי		- 1	- !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.)	. '		.)	. 1	- 1	ł

TABLE A13 SPEED DATA

STATION: 2L-79

HIGHWAY: SR 25

LOCATION, 0.7 MILE SOUTH OF AMERICUS

NO. OF LANES: 2

TYPE OF SURFACE: ASPHALT

WEATHER: CLOUBY

THIS OBSERVATION DATE: 8/16/85 TIME: 10:03 AM

LAST FREVIOUS OBSERVATION (SPEED REPORT NO DATE: 8/8/84 TIME: 8:25 AM

118)

		!		PASSENGER	1	CARS		,			TRUCKS		
		AL		IMDIAWA	ANA	NON-I	MOM-INDIANA	1 4	ALL	<5000	O LBS.	>5000	CBS
DBSERVATION	4T LON		PRES- ENT	LAST	PRES- ENT	LAST	PREST	LAST	PRES-	LAST	PRES- EMT	LAST	PRES
NUMBER OF VEHICLES 317 AVE. SPEED (MPH) 55,79 STAMBARD DEVIATION 4,575	VEHICLES 1 (MPH) 3EVIATION	60 60 60 70 70 70 70 70 70	436 54 10 4 820	55. 75 4. 647	34.07 4.632	25.84 3.716	54.40 6.427	187 54.03 4.568	191 53.73 4.239	106 54, 53 4, 632	114 54 50 4, 163	1 81 52.37 4.42を	77 52 58 4.165
	24 HPH	0.	0	0	0	0		1 0	0				
	ES MPH	Ö	Ó	Ö	ó	Ó	jo	o C	i c	i c	i c	i c) C
	34 MPH	ó	Ö	O	Ö	0	Ö	Ö	් ල්	0	• •	်ဝ	i ci
		Ċ1	Q.	O		0	Ó	0			Ö	o	ტ —
PERCENT		e O	0) (0)	1 0	e oi	Ö	ម ប្រ	9.7	ญ่	1. D-	0.0		m G-
F.		m				4 0	13. S	15.0					e) e)
VEHICLES		(1) (1) (1)	51.6	4 0.00		40.0		52, 4	57.1		48 2	56.8	70 1
TRAVELING	_					84.0	81.1	90.9			9.00	en th	68 7
LESS THAN		in O				100.0		9.00 G	0 66				
۳. ا							100.0	59. B					
EGUAL TO			100 0				100 0	100.0	0. 0.	100 0	1 55	100.0	100.0
	Hell of			100 0				100.0					
		100			100.0	100,0	100.0	100.0	100.0		100.0		
	Ē	100 0	100.0			100.0	100.0	100.0					
DIRECTION NB	- E	1	1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1	1	1		1	1	1	1	1
# OF VEHICLES	ES.	15 15 15 15 15 15 15 15 15 15 15 15 15 1	182	501	151	16	31	63	G.	n n	Ą.	e.	5.0
AVERAG	AVERAGE SPEED	56 03	53. 95	56.12	53, 73	55.23	55, 60	53, 76	53, 67	14 11	54 71	10 10 10 10 10 10	ים מים מים
BIRECTION	220											i	ì
# OF VEHICLES	ES	142	100 100	153	248	(r	9	φ.	g.	31	EC)	5	40
AVERAG	AVERAGE SPEED	55, 56	54 20	55. 48	54 27	56.89	51, 50	54, 29	53, 79	54 98	54, 24	53 47	53, 05

TABLE A14 : SPEED DATA

STATION: 2L-91 HIGHWAY: SP 43 L

43 LOGATION: 2.0 MILES SOUTH OF CHALMERS

MO. OF LAMES: 2 TYPE OF G

TYPE OF SURFACE: ASPHALT

THIS OBSERVATION
DATE: 7/22/85
TIME: 10:35 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118)
DATE: 8/7/84
TIME: 8:30 AM

WEATHER: BRIGHT, CLEAR

		j		PASSE	PASSENGER CA	CARS					TRUCKS		
	; ; ; 1 <u>1</u>	AL.		INDIANA	ANA	NON-I	NON-INDIANA	. ₹	ALL	<5000	o LBS.	>2000	O LBS.
₹ 5	TION	LAST	PRES- ENT	LAST	PRES- EMT	LAST	PRES	LAST	PRES-	LAST	PRES	LAST	PRESI
MUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	VEHICLES (MPH) EVIATION	281 57.24 4.889	345 57.31 5.348	264 57.22 4.761	37.23 57.23 5.404	17 57. 59 6. 746	57.88 4.926	179 55.30 4.872	178 55.34 4.588	93 55.03 5.076	56.04 4.250	86 69. 69 4. 694	56. 68 4. 943
	1		! ! ! ! !	1	1	1 1 1 1 1 1 1 1	1	1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1		1 1 1 1 1 1	1 1 1 1 1 1 1 1
	24 MPH	O	Ö	ó	ö	Ö	Ö	Ö	Ö	Ö	Ö	ဝ	ö
		ó	0	ó	Ö	Ö	Ö	o.	ö	0	Ö	Ö	Ó
		Ö	ó	Ö	Ö	Ö	ö	ö	ó	o.	ó	ó	0
	39 MPH	O.		O 4		o.	Ö	1,1	Ö	1.1	Ů		Ó
PERCENT	44 MPH	1.1	0 8	1 1	છ હો	Ö	บ ถ	1.7	0.6	1.1	1.1	e) oi	Ö
70		7.1	о К	6.1		23. G	φ ,	11,2	0	11.8	4.9		11.5
VEHICLES	まらご すの	ტ ტ მ	24.6			(A)	12.5		30.3		30.9		29. B
TRAVEL ING		99.00 10.00	67. B	1- 14 (3)		58.8	7. 10. 10.	70,0	75.8	75. G	81.9	83.4	69.0
LESS THAN		ሴ 4	۵- ۵) ۳.			88. 2	93.0		95.6		98.9		94.0
OR	69 NPH	99 0	98 6			54.1	97.5		466		υ . Βυ		100.0
EQUAL TO	74 TPH	100.0	r- 0- 0-	100.0	100 0	100.0	ν, γ,	100.0	100.0	100, 0	100.0	100.0	100.0
		100 0	100.0			100.0	100.0		100.0		100.0		100.0
	B4 MPH	100.0	100,0			100.0	100.0		100,0	100, 0	100.0	100.0	100.0
	BY NPH	100 0	100,0	100.0	100.0	100.0	100 0	100.0	100,0		100.0		100.0
BIRECTION: NB	NB		1	1	; ; ; ;		1 1 1 1 1	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! !
# OF VEHICLES	L)	440	158	123	171	Z,	r.	ტ. წ	82	S Cl	4	4	ري دن دن
AVERAG	AVERAGE SPEED	56.73	56. 61	56.77	56.47	56, 33	57, 48	55.04	55.65	54, 69	55.58	55, 47	55, 72
DIRECTION: SE	35												
# OF VEHICLES	ES	141	147	136	134	U)	13	0	() ()	41	4 0.	4	কক
AVERAGE	E SPEED	57 74	58 13	57, 64	58, 20	60, 60	58 88	55, 58	56. 4B	55.46	56.47	55, 70	57, 55

TABLE A15 SPEED DATA

STATION: UI-ALL

HIGHWAY URBAW INTERSTATE

THIS OBSERVATION DATE: JULY 10 SEPTEMBER 1985

			1	PASSENGER	MGER CARS	RS	; 1 1 1 1			F	rrucks	1 1 1 1 1	1 1 1 1
		1 7	1	INDIANA	AMA	NON-11	NON-INDIANA	i ₹	ALL	<5000) LBS.	>5000) LBS.
OBSERVATION	NOIL	LAST	PRES-	LAST	PRES-	LAST	PRES- ENT	LAST	PREST	LAST	PRES- ENT	LAST	PRES-
NUMBER OF VEHICLES 775 AVE. SPEED (MPH) 58 72 STANDARD DEVIALION 4 443	VEHICLES (MPH) EVIALION	58 72 58 72 4 4 443	4.788 4.788	000 000 000 000 000	488 59, 50 5, 043	222 58.44 4.468	305 59.34 4.267	57.01 4.587	539 57.68 4.08&	190 58. 13 4. 903	183 58.37 4.095	4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	356 57.32 4.042
1	H9M 460	0000	0000	0000	0000	0000	0000	0000	ဝဝဝဝ	ဝ်စ်စ်စ်	ତ ତ ତ ତ	စ်စ်စ်စ်	0000
PERCENT		တက ကြောင်း	င ပြင်လ	010 664	n i o n	ଷ ପ କିମ୍	ე - ქ	9 9 9 8 8	0.01 014	13 in	ျာ ဝဝ	9.6	0 0 0 4
VEHICLES		4 M	11 to 12 to	0 m	स व ए हो	14.00 00.00	0, 4, 01 4	25.6	19.1	18.5 62.4	15.8 64.9	80 4 . V.	20. B 73. 0
LESS THAM		មេ ខេត្ត ខេត្ត	900	4 .00.00	84.9	9. 9. 0. 0. 0. 0.	84.5 4.8	0.0° 0.0° 0.4	94.6	91.6 98.4	9.00 9.00 0.00	97, 9 160, 0	0 0 0 0 0 0 0
EQUAL TO		100.0 100.0 100.0	\$9.5 100.0 100.0 100.0	100.0 100.0 100.0 100.0	99. 4 100. 0 100. 0	100.0 100.0 100.0 100.0	\$9, 7 100, 0 100, 0	100. 0 100. 0 100. 0	100.0 100.0 100.0	100. 0 100. 0 100. 0 100 0	100 0 106.0 100.0 100.0	100. 0 100. 0 100. 0 100. 0	100.0 100.0 100.0

TABLE A16 : SPEED DATA

STATION: RI-ALL

HIGHWAY: RURAL INTERSTATE

THIS OBSERVATION
DATE: JULY TO SEPTEMBER 1985

		i	400 max	PASSE	PASSENGER CA	CARS	! :		1	!	TRUCKS		1
	 	A-L	!	INDI	IMDIANA	1-202	MOM-INDIANA	; a		<5000	O LBS.	0005<	0 (85)
OBSERVATION	z	LAST	FRES- ENT	LAST	PRES- ENT	LAST	PRES-	LAST	PRES-	LAST	PRES-	LAST	10_
MUMBER OF VEHICLES 1227 AVE. SPEED (MPH) 59,79 STAMDARD DEVIATION 4,529	ICLES PH) ATION	1227	1363 59. 53 4. 470	745 59.32 4.376	885 59.25 4.476	482 60.50 4.671	478 60.05 4.415	861 58.18 4.213	810 57.72 4.286	242 58.36 4.370	302 57.98 4.884	619 58.11 4.152	508 57.56 3.885
24 29 34 35 06 VEHICLES 34 TRAVELING 59 LESS THAN 64 07 EQUAL TO 74 89	700 H M M M M M M M M M M M M M M M M M M	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	00.00 11.00 11.00 51.9 98.77 98.77 998.77	0.00.00 447.77 100.00 100.00 100.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	00000000000000000000000000000000000000	0.00 4 % % 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.0 0.1 2.1.2 2.1.2 2.1.2 2.1.2 5.8 5.9 7.1.2 7.9 100.0	0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	00.00 6.00 9.00 9.00 9.00 9.00 100 00.00	00000000000000000000000000000000000000	0.00.00 71.11 95.77 100.00

STATION: 4L-ALL

ALL HIGHWAY 4-LAME

THIS OBSERVATION
DATE: JULY TO SEPTEMBER 1585

		1 1		PASSENGER	1	CARS					TRUCKS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i i ! !
	; ; ; ;	DV.		INDIANA	নাম	I -NON	NOM-INDIAMA	' ₹	ALL	00060	O LBS.	>5000	0 LBS.
OBSERVATION	TEON	LAS	PRES- ENT	LAST	PRES- ENT	LAST	PRES-	LAST	PREST	LAST	PRES-	LAST	PRES- ENT
MUMBER OF VEHICLES	VEHICLES	61119	5651	858	1096	261	29.6	836	888	372	43.0	464	44.5
STANDARD DEVIATION 4	EVIATION	4 755	4.721	4, 883	4 650	4. 264	18. 4. 675 4. 675	5.346	5. 646	5, 106	5,404	9.6.7.0 9.0.0 9.0.0 9.0.0	0.00 0.41 0.42
	24 MPH	Q.	0,	0.	6	0	0.	i	0	0.0	0	1	
	29 MPH	Ö.	Ö	ó	ó	Ö	ó		o	Ö	Ö		Ö
	34 MPH	ರ	0.1	ö	0.1	0	Ö		0.1	0	Ö		0
		Ů	0.1	0	C)	0	Ö		0.6	ហ	Ó		, m
PERCENT	44 MPH	5	0.8	0 0	1.0	0.4	ó	เก เก่	ប <u>ា</u>	(c)	 	U)	7. 1
F.O		4 0	R) R)	લ જ	6.0	5 1	i,		11.1	6. 7	6		13. H
VEHICLES		20.1	26 €	21.8	29.0	14 6	17.6		38 7	26. 1	37 1		40,3
TRAVEL ING			70. 4	۱۰۰ ۱۳۰	72.4	60.9	63.83		75.5	66. 7	73.8		77.1
LESS THAN		95.6	94.3	53. 4	ι. ω	90 0	90,5		94 4	95.2	93.2		50°.
Ç	69 MPH	6 OF	4 00	58. B	(1) (2)	000	98.6		e e e	υ, Ο.	98.5		8 55
EQUAL TO	74 MPH	Ի ՄԻ- ՄԻ	\$ 65	r. 00	100.0	100.0	r. 00		9 9	100.0	9.65		100.0
		0- 0- 0-	100.0	0. 0. 0.	100.0	100.0	100.0		100.0	100.0	100.0		100 0
	84 11PH	100.0	100.0	100.0	100 0	100 0	100 0		100.0	100,0	100		100.0
	HeW 88	100.0	100.0	100.0	100.0	100.0	100 0		100.0	100.0	100.0		100.0

STATION: 2L-ALL HI

L HICHWAY: 2-LANE

THIS UBSERVATION BATE: JULY TO SEPTEMBER 1985

1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PASSEMGER	MOER CARS	RS	 				TRUCKS	1	1
		AL.		INDIANA	ANA	MON-11	MON-INDIAMA	i₹	ALL	(2000)	CSOOO LBS.	>5600	LBS.
DBSERVATION	T	LAST	PRES-	LAST	PRES-	LAST	PREST	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
MUMBER OF VEHICLES 1114 AVE. SPEED (MPH) 56.56 STANDARD DEVIATION 4.873	VEHICLES (MPH)	1114 56. 56 4. 873	1538 55, 73 5, 626	1014 56. 53 4. 885	1411 55.75 5.614	100 56.86 4.759	127 55.54 5.780	731 55. 15 5. 269	773 54. 79 5. 320	379 55.24 5.385	450 55. 44 4. 888	352 55.07 5.148	323 53.87 5.751
		0000	0000	0000	0000	0000	0000	0000	0000	0.00 1.000 1.13	0000	ဇ ဝဝဝဝဝ	က ဝင်ဝင်
PERCENT	44 MPH 49 MPH		11.20	0 0 i	11.02 4.44	7.0	13.59 8.49	12.9	6.4.	21 Zi	9 7 6 F	ង ឃុំ (ឃុំ ជ	20.4 20.4 20.4
VEHICLES TRAVELING	ម ម្		38. 7 77. 8	32.8 76.7	39, 1	32.0 72.0	34.6 79.5	43. 1 80. 7	82.9 82.9	78.1	9.7.0 9.1.0 9.0 9.0 9.0 9.0		0.00 0.4.00 0.00 0.00
LESS THAN	44 49		94. 3 98. 6	95 0 99.0	9.00 00 V	96. 0 99. 0	96. 1 98. 4	96.4 99.7	0 0 0 0 0 0	9 6 6 9 6 6 9 6 6		100.0	99. 7
EGUAL TO	74 MPH 97 MPH 84 MPH HPM 98	99.8 100.0 100.0 100.0	99, 5 99, 9 100, 0 100, 0	99, 8 100, 0 100, 0	99, 6 99, 9 100, 0 100, 0	100.0 100.0 100.0	44, 2 100, 0 100, 0 100, 0	100.0 100.0 100.0	100.0 100.0 100.0	100.0	100.0 100.0 100.0	100.0	100.0

TABLE A19 : SPEED DATA

STATION: ALL-14

HIGHWAY, URBAN INTERSTATE RURAL INTERSTATE 4-LANE 2-LANE

US DESERVATION (SPEED REPORT NO 110)	DATE: JUNE TO AUGUST 1984
LAST PREVIO	DATE:
THIS OBSERVATION	DATE: JULY TO SEPTEMBER 1985

				PASSENGER	1 1	CARS	1		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		TRUCKS	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	
	} ;	AFL	! ! ! ! ! ! !	INDIANA	ANA	NON-1	NON-INDIANA	1 4		0006>	O LBS.	>5000	0 L8S.
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES-	LAST	PRES-	LAST	PRES	LAST	PRES	LAST	PRES- ENT
NUMBER OF VEHICLES 4235 AVE. SPEED (MPH) 58.25 STANDARD DEVIATION 4.823	VEHICLES (MPH) REVIATION	58.23 58.23 4.823	5081 57.72 5.211	3170 57.92 4.819	3875 57.33 5.274	1065 59, 25 4, 697	1206 58.97 4.797	2944 56.85 5.010	3010 56. 41 5. 109	1183 56. 90 5. 174	1374 56. 66 5. 087	1761 56.82 4.898	1636 56. 19 5. 119
PERCENT OF VEHICLES TRAVELING LESS THAN OR EQUAL TO	24 MPH 34 MPH 44 MPH 45 MPH 46 MPH 56 MPH 57 MPH 64 MPH 64 MPH 67 MPH 67 MPH 68 MPH 69 MPH 74 MPH 69 MPH 76 MPH 77 MPH	00000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	00.00 69.00 69.00 99.00 1000 1000 1000 0000	00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00	00.00 100.00 100.00 100.00 100.00	0.00.00.00.00.00.00.00.00.00.00.00.00.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 2.00 2.00 2.00 2.00 2.00 1.00 1.00	00.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.01 0.03 0.03 0.03 0.03 100.00 100.00 100.00	00000000000000000000000000000000000000

TABLE A20 : SPEED DATA

HIGHWAY: RURAL INTERSTATE 4-LANE 2-LANE STATION: RURALL

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 118) DATE: JUNE TO AUGUST 1984 ; THIS OBSERVATION DATE: JULY TO SEPTEMBER 1985

f 1 1 1 1 1	! ! ! !	1		PASSENGER	NGER CARS	RS					TRUCKS	1	! ! ! !
		ALL		INDIANA	ANA	NON-II	NON-INDIANA	i ₹	ALL	<5000	O LBS.	>5000	LBS.
OBSERVATION	NO11	LAST	PREG	LAST	PRES-	LAST	PRES-	LAST	PRES	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 3460	VEHICLES	3460	4293	2617	3392	843	901	2428	2471	699	1191	1435	1280
AVE. SPEED (MPH) 58.15 STAMBARD DEVIATION 4.899) (MPH))EVIATION	58.15 4.899	57.41 5.230	57. /2 4. 876	57.02 5.234	4. 734	4. 960	30 82 5,096	5, 266		5.175	5.026	5.340
	24 MPH	0	0.	0.	9	0.	3	0.	0.	0.	.0	0.	.0
		id	Ö	Ö	Ó	Ö		ó	ó	Ö	ö	0.1	Ö
	MA ZPI	id	o o	Ö	0	o.	ö	0.5	0.0	0.5	O	0.1	0
	39 MPH	i c	0	ď	O	Ö		9.0	0.3	9.0	0	0.6	0.5
FERCHAT	44 MPH	in C			1.4	0.0		1.9	ני) סי	1.7	1.4		4. G
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4	(m)		7.1	1.7		7.1	9.1	7.8	7.6		10.5
VEHTCLES	. ជា ជា	200	0.00		28. 9	13.2		28.2	34.8	29.8	34. 3		35.4
TRAVELING	(r	63	67.2		70.0	52, 2		69.7	75.4	69.3	74.1		76.6
FSS THAN	54	91.7	0.0		5.00	88. 4		95.1	95.1	95.0	94.2		96.0
	20	4.00	98.9		0.65	97.9		99. 4	99.2	4 66	58.7		99. 7
FOUAL TO	4.	0.0	100		2 65	0.		106.0	99.9	100.0	2.65		100.0
] : : : :	10.	1. O.O.	100.0		\$ 00	30.0		100.0	100.0	100.0	106.0		100.0
	84 (1PH	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		100.0		100 0	100.0	100.0	•	100.0	100.0	100.0	100 0		100.0
												111111	



